

Jeffrey Gary Mangum

CONTACT INFORMATION National Radio Astronomy Observatory Voice: (434) 296-0347
520 Edgemont Road E-mail: jmangum@nrao.edu
Charlottesville, VA 22903 USA WWW: www.nrao.edu/~jmangum

RESEARCH INTERESTS

Radio telescope design and characterization

Radio astronomical calibration

Molecular spectral line and continuum studies of galactic and extragalactic star formation

Far-infrared/submillimeter continuum studies of young and forming stars

Cometary astrophysics

Education and public outreach

EDUCATION

Ph.D., Astronomy, August 1990, **University of Virginia**, Charlottesville, VA USA

M.A., Astronomy, January 1988, **University of Virginia**, Charlottesville, VA USA

B.A., Astronomy, May 1985, **University of California at Berkeley**, Berkeley, CA USA

PROFESSIONAL EXPERIENCE

National Radio Astronomy Observatory, Charlottesville, VA USA

Scientist **June 2002 to present**

ALMA Calibration Group Lead **March 2003 to 2010**

ALMA Test Facility Director **January 2000 to December 2004**

- Leader of the international Antenna Evaluation Group assigned the task of evaluating the ALMA prototype antennas. The ALMA Test Facility was located on the site of the Very Large Array in New Mexico, USA.

Associate Scientist **December 1998 to June 2002**

Deputy Assistant Director Tucson Operations **December 1996 to December 2001**

Assistant Scientist **December 1995 to December 1998**

Resident Scientist for NRAO 12m Telescope **December 1995 to July 2000**

University of Virginia, Charlottesville, VA USA

Visiting Scholar in the Department of Astronomy **May 2012 to present**

Research Professor of Astronomy **September 2005 to May 2012**

Submillimeter Telescope Observatory, Tucson, AZ USA

Staff Scientist **September 1992 to December 1995**

University of Texas, Austin, TX USA

Postdoctoral Research Fellow **September 1990 to September 1992**

PROFESSIONAL
ACTIVITIES

Editor-in-Chief, Publications of the Astronomical Society of the Pacific (PASP),
January 2013 to present

*United States National Committee (USNC) International Union of Radio Science
(URSI)*

- USNC URSI Member-at-Large, January 2022 to present
- Commission J Chair, January 2018 to January 2022
- Commission J Vice Chair, January 2015 to January 2018

International Union of Radio Science (URSI)

- Individual Member, April 2018 to present

NRAO Community Support Programs Coordinator, National Radio Astronomy
Observatory, October 2008 to March 2014

Research Experience for Undergraduates (REU) program coordinator, National
Radio Astronomy Observatory, May 1996 to March 2014

NRAO Tucson Webmaster, National Radio Astronomy Observatory, May 1996
to May 2004

TECHNICAL
SKILLS

Extensive hardware and software development experience in scientific comput-
ing, information technology, and high-precision antenna design and evaluation

Programming: Fortran, C, C++, Python, Perl, PHP, HTML, Javascript, UNIX
shell scripting, SQL, RCS, CVS, and others

Applications: T_EX, L_AT_EX, Microsoft Office, and other common productivity
packages for Windows, OS X, and Linux platforms

Analysis: Mathematica, IDL, AIPS, CASA, Miriad, Gildas suite

Operating Systems: Apple Mac OS X, Microsoft Windows, Linux, and other
UNIX variants

PUBLICATIONS

Complete publications list available on ADS